

# SCHOTT® HelioLine

High-quality Aviation approved side-emitting glass fiber cable



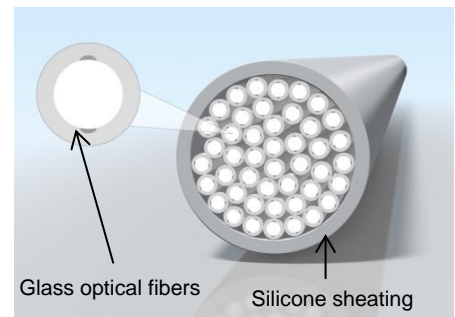
SCHOTT® HelioLine sidelight components are side-emitting optical fibers that were developed to answer the high demand for mood- and ambient lighting in aircraft cabins. SCHOTT® HelioLine sidelight components offer a huge number of outstanding user benefits for line light applications including:

- Excellent color characteristics
- High light output and homogeneity in combination with SCHOTT® HelioBasic II, HelioIntense or HelioPower light sources
- Very limited space depth
- Non-electrical light emitters
- Perfect fluid resistance
- Excellent flexibility resulting in extreme small bending radii for more design freedom
- Unrivalled lifetime

## Applications

Mood lighting and ambient illumination in aircraft cabin:

- Toe-Kick areas
- Table & monument edges
- Seat contours
- Steps of staircase
- Handrails



SCHOTT® HelioLine is a side-emitting cable with a silicone sheathing.

Version 05.2014



## Technical Data SCHOTT® HelioLine

<b>SCHOTT Part number</b>	<b>1470754</b>	<b>1470763</b>
<b>Dimensions :</b>	∅ 2,0±0,1 mm	∅ 3,0±0,1 mm
<b>Active bundle diameter</b>	∅ 3,85±0,15 mm	∅ 4,85±0,2 mm
<b>Cable diameter</b>	> 10 mm	> 15 mm
<b>Bending radius</b>		
<b>Weight</b>	17 g/m	30 g/m
<b>Glass fibers</b>	approx. 670	approx. 1530
<b>Quantity</b>	70 µm	70 µm
<b>Fiber diameter</b>	max. 5 per meter allowed	
<b>Fiber breakage</b>	No conglomerates allowed	
<b>Cable material</b>	Silicon	
<b>Color</b>	White translucent	
<b>Mounting and cleaning</b>	No tensile stress or high pressure allowed	
<b>Flammability</b>	Bunsen burner test 60°-30s acc. FAR/JAR/CS25, App. F, Part I & AITM	
<b>Smoke density</b>	Acc. to JAR/FAR/CS25, App. F, Part V & AITM 2.0007 / 2.0008B	
<b>Toxic Components</b>	Acc. to ABD0031 & AITM 3.0005	
<b>Fluids Susceptibility</b>	According to RCTA DO-160F: Coffee, Soda, Alcoholic drinks, Isopropyl alcohol, Callington one shot (AMS1450)	
<b>Chemical resistance</b>	Good resistance against household cleaning agents as well as Ethanol. Other cleaning agents have to be tested.	
<b>Light output uniformity and color deviation</b>	Up to fiber length of 5.5 m no difference visible for lightsources with radiation angle of 55° max. (equals NA 0.46).  For lengths > 2 m, lightsource at each end is highly recommended.	
<b>Operating Conditions</b>	Ambient Temperature Relative Humidity	-40°C to + 160°C 85% max.
<b>Transportation and Storage</b>	Temperature Relative Humidity	- 20°C to + 70°C 10 to 90% (non-condensing)

### Related light sources

- SCHOTT® HelioBasic II (single color, standard intensity)
- SCHOTT® HelioIntense (single color, high intensity)
- SCHOTT® HelioIntense Spectrum CC (full colors, high intensity)
- SCHOTT® HelioPower (single color, very high intensity for multi-tail applications)

### End ferrule with union nut

